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| 8/4/2004 | Rhonda Dunn | Rhonda Dunn |

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

**In re Application of:** Marpe, et al.
**Docket No.:** SCHO0154
**Serial No. :** 10/677,886
**Art Unit:** Unknown
**Filed:** 10/02/2003
**Examiner:** Unknown
**Title:** Coding Of A Syntax Element Contained In A Pre-Coded Video Signal

**Date**: August 5, 2004

Commissioner for Patents
Mail Stop IDS
P.O. Box 1450
Alexandria, VA 22313-1450

TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT

Sir:

Applicant herewith transmits the following documents:

- Information Disclosure Statement, Form 1449, and cited references; and
- Return Postcard

Application believes there are no fees due with this submission, however, the Commissioner is authorized to charge any fees that may be due, and credit any overpayments to Deposit Account No. 07-1445 (Order No. SCHO0154). A copy of this sheet is enclosed for accounting purposes.

Respectfully Submitted,

Michael A. Glenn
Reg. 30,176

Customer No. 22862

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PATENT & TRADEMARK OFFICE

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|---|---|---|
| 8/5/2004 | Rhonda Dunn | Rhonda Dunn |

# IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

**In re Application of:** Marpe, et al.
**Serial No. :** 10/677,886
**Filed:** 10/02/2003
**Title:** Coding Of A Syntax Element Contained In A Pre-Coded Video Signal

**Docket No.:** SCHO0154
**Art Unit:** Unknown
**Examiner:** Unknown

**Date**: 8/5/2004

## INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
Mail Stop IDS
P.O. Box 1450
Alexandria, VA 22313-1450
Sir:

This Information Disclosure Statement is submitted:

(X) under 37 CFR 1.97(b), or
(within three months of filing national application; or date of entry of international application; or before mailing date of first office action on the merits; whichever occurs last)

( ) under 37 CFR 1.97(c) together with either a:
- ( ) Certification under 37 CFR 1.97(e), or
- ( ) a $220.00 fee under 37 CFR 1.17(p), or

(After the CFR 1.97(b) time period, but before final action or notice of allowance, whichever occurs first)

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( X) The Commissioner is authorized to charge any additional fees or credit any overpayment to Deposit Account No. 07-1445 (Order No. SCHO0154). A copy of this sheet is enclosed for accounting purposes.

(X) Applicant(s) submit herewith Form PTO 1449 -- Information Disclosure Citation together with copies of patents, publications or other information of which applicant(s) are aware, which applicant(s) believe(s) may be material to the examination of this application and for which there may be a duty to disclose in accordance with 37 CFR 1.25.

( ) A concise explanation of the relevance of foreign language patents, foreign language publications and other foreign language information listed on PTO Form 1449, as presently understood by the individual(s) designated in 37 CFR 156(c) most knowledgeable about the content is given on the attached sheet, or where a foreign language patent is cited in a search report or other action by a foreign patent office in a counterpart foreign application, an English language version of the search report or action which indicates the degree of relevance found by the foreign office is listed on form PTO 1449 and is enclosed herewith.

It is requested that the information disclosed herein be made of record in this application.

Respectfully Submitted,

Michael A. Glenn
Reg. 30,176

Customer No. 22862

OIPE JC102 AUG 0 5 2004 PATENT & TRADEMARK OFFICE

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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

*(Use as many sheets as necessary)*

Sheet 1 of 6

| *Complete if Known* | |
|---|---|
| **Application Number** | 10/677,886 |
| **Filing Date** | 10/2/2003 |
| **First Named Inventor** | Marpe, et al. |
| Art Unit | 2621 |
| Examiner Name | Unknown |
| Attorney Docket Number | SCHO0154 |

**OTHER PRIOR ART–NON PATENT LITERATURE DOCUMENTS**

| Examiner Initials* | Cite No.[1] | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T[2] |
|---|---|---|---|
| | A | Wiegand, Thomas, et al; "Draft ITU-T; Recommendation and Final Draft International Standard of Joint Video Specification; ITU-T Rec. H.264; ISO/IEC 1449-10 AVC"; 8th Meeting: Geneva, Switzerland, 23-27 May 2003 | |
| | B | Wiegand, Thomas, et al; "Overview of the H.264/AVC Video Coding Standard"; IEEE Transaction on Circuit and Systems for Video Technology, Vol. 13 No. 7, July | |
| | C | ISO/IEC 13818-2: 1995 (E) Specification | |
| | D | Sullivan, Gary: "Draft Text of Recommendation H.263 Version 2 ("H.263+") for Decision"; Study Group 16 - Contribution COM-999; Study Period 1997-2000 | |
| | E | International Organization For Standardizaton; Organization Normalization; "Information Technology – Coding of Audio Visual Objects –Part 2: Visual"; N4350 | |
| | F | Gonzales, C.A., et al; "DCT Coding for Motion Video Storage using Adaptive Arithmetic Coding"; Signal Processing: Image Communication 2 (1960); Vol. 2, No. 2, pp 145-154; August 1990 | |
| | G | Marpe, Detlev, et al; "Adaptive Codes for H.26L"; ITU-T Telecommunications Standardization Sector; Video Coding Experts Group Document; Document VCEG-L13; Twelfth Meeting: Eibsee, Germany, 9-12 January 2001 | |
| | H | Marpe, Detlev, et al; "Further Results for CABAC entropy coding scheme"; ITU-T Telecommunications Standardization Sector; Video Coding Experts Group Document; Document VCEG-M59; Thirteenth Meeting: Austin, Texas, USA 2-4 April 2001 | |
| | I | Marpe, Detlev, et al; "Improved CABAC"; ITU-T Telecommunications Standardization Sector; Video Coding Experts Group Document; Document VCEG-018r1; 15th Meeting: Pattaya, Thailand, 4-6 December 2001 | |
| | J | Marpe, Detlev, et al; "New Results on Improved CABAC"; Joint Video Team of ISO/IEC MEG & ITU-T VCEG, Document JVT-B101; 2nd Meeting: Geneva, CH, Jan. 29-Feb. 1, 2002 | |

| Examiner Signature | | Date Considered | |
|---|---|---|---|

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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 2 of 6

| *Complete if Known* | |
|---|---|
| **Application Number** | 10/677,886 |
| **Filing Date** | 10/2/2003 |
| **First Named Inventor** | Marpe, et al. |
| Art Unit | Unknown |
| Examiner Name | Unknown |
| Attorney Docket Number | SCHO0154 |

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|---|---|---|---|
| | K | Schwarz, Heiko, et al; " Improved CABAC"; Joint Video Team of ISO/IEC MPEG & ITU-T VCEG; Document JVT-C060; 3rd Meeting: Fairfax, Virginia, USA, 6-10 May 2002. | |
| | L | Marpe, Detlev, et al; "Fast Arithmetic Coding for CABAC"; Joint Video Team of ISO/IEC MPEG & ITU-T VCEG; Document JVT-C060; 3rd Meeting: Fairfax, Virginia, USA, 6-10 May 2002. | |
| | M | Schwarz, Heiko, et al.; "CABAC and Slices"; Joint Video Team of ISO/IEC MPEG & ITU-T VCEG; Document JVT-D020r1; 4th Meeting: Klagenfurt, Austria, 22-26 July 2002 | |
| | N | Karczewicz, Marta, et al.; "Analysis and Simplification of Intra Prediction"; Joint Video Team of ISO/IEC MPEG & ITU-T VCEG; Document JVT-D025; 4th Meeting: Klagenfurt, Austria, 22-26 July 2002 | |
| | O | Marpe, Detlev, et al.; "Proposed Cleanup changes for CABAC"; Joint Video Team of ISO/IEC MPEG & ITU-T VCEG; Document: JVT-E059; 5th Meeting: Geneva, CH, 9-17 October 2002 | |
| | P | Bossen, Frank; "CABAC cleanup and complexity reduction"; Joint Video Team of ISO/IEC MPEG & ITU-T VCEG; Document: JVT-Exxx; 5th Meeting: Geneva, Switzerland, October 2002 | |
| | Q | Marpe, Detlev, et al; "Final CABAC cleanup"; Joint Video Team of ISO/IEC MPEG & ITU-T VCEG; Document: JVT-F039; 6th Meeting: Awaji, Island, JP, 5-13 December 2002 | |
| | R | Marpe, Detlev and Hans L. Cycon; "Very Low Bit – Rate Video Coding Using Wavelet – Based Techniques"; IEEE Transactions on Circuits and Systems for Video Technology; Vol. 9, No. 1, Feb 1999. | |
| | S | Heising, G., et al; "Wavelet-based very low Bitrate coding using image warping"; IEE Proc.-Vis. Image Signal Process, Vol 148, No 2, April 2001 | |
| | T | Choi, Seung-Jong, and John W. Woods; "Motion-Compensated 3-D Subband Coding of Video"; IEEE Transactions on Image Processing, VOL 8, No. Feb. 1999 | |

| Examiner Signature | | Date Considered | |
|---|---|---|---|

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Sheet 3 of 6

| *Complete if Known* | |
|---|---|
| **Application Number** | 10/677,886 |
| **Filing Date** | 10/2/2003 |
| **First Named Inventor** | Marpe, et al. |
| Art Unit | Unknown |
| Examiner Name | Unknown |
| Attorney Docket Number | SCHO0154 |

**OTHER PRIOR ART–NON PATENT LITERATURE DOCUMENTS**

| Examiner Initials* | Cite No.[1] | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T[2] |
|---|---|---|---|
| | U | Said, Amir and William A. Pearlman; "A new fast and efficient image codec based on set partitioning in hierarchical trees"; IEEE Int. Smyp on Circuits and Systems, Chigcago, IL May 1993 | |
| | V | Marpe, Detlev and Hans L. Cycon; "Efficient Pre-Coding Techniques for Wavelet-Based Image Compression"; Proc. Int. Picture Coding Symposium , pp. 45-50, 1997 | |
| | W | Rissanen, Jorma and Glen G. Landgon, Jr; "Universal Modeling and Coding"; IEEE Transactions on Information Theory; Vol. It-27, No. 1, January 1981 | |
| | X | Rissanen, Jorma; "Universal Coding, Information, Prediction, and Estimation"; IEEE Transactions on Information Theory; Vol. It-30, No. 4, July 1984 | |
| | Y | Weinberger, Marcelo J., et al; " Applications of universal context modeling to lossless compression of grey-scale images"; IEEE Transactions on Imaging Processing; Vol. 5, No. 4, April 1996 | |
| | Z | Teuhola, Jukka; "A Compression Method of Clustered Bit-Vektors"; Information Processing Letters, Vol 7, Number 6, pp. 308-311, October 1978 | |
| | AA | Gallager, Robert G. and David C. Van Voorhis; "Optimal Source Codes for Geometrically Distributed Integer Alphabets"; IEEE Transactions on Information Technology; pp 228-230, March 1975 | |
| | AB | Mrak, Marta, et al.; "A Context Modeling Algorithm and its Application in Video Compression"; Fraunhofer-Institute HHI, Berlin, Germany | |
| | AC | Pennebaker, W.B., et al; "An overview of the basic principles of the Q-Coder adaptive binary arithmetic coder"; IBM. J. Res. Develop, Vol 32, No. 6, November 1988 | |
| | AD | Rissanen, Jorma and K. M. Mohiuddin; :A multiplication-free multialphabet arithmetic code"; IEEE Transactions on Communications; Vol. 37, No. 2, February 1989 | |

| Examiner Signature | | Date Considered | |
|---|---|---|---|

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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 4 of 6

| *Complete if Known* | |
|---|---|
| **Application Number** | 10/677,886 |
| **Filing Date** | 10/2/2003 |
| **First Named Inventor** | Marpe, et al. |
| Art Unit | Unknown |
| Examiner Name | Unknown |
| Attorney Docket Number | SCHO0154 |

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|---|---|---|---|
| | AE | Howard, Paul G. and Jeffrey Scott Viter; "Practical implementations of arithmetic code"; Brown University, Department of Computer Science, Technical Report No. 92-18; Revised version, April 1992, Formerly Technical Report No. CS-91-45. | |
| | AF | "Sample Data Coding"; Chapter 12, pp. 473-484 | |
| | AG | Moffat, Alistair, et al; "Arithmetic Coding Revisited"; ACM Transactions on Information Systems, Vol 16, No. 3, pages 256-294, July 1998 | |
| | AH | Wiegand, Thomas, et al; "Rate-Constrained Coder Control and Comparison of Video Coding Standards"; IEEE Transactions on Circuits and Systems for VideoTechnology; Vol. 13, No. 7, July 2003 | |
| | AI | Wiegand, Thomas; "Draft ITU-T Recommendation and Final Draft International Standard of Joint Video Specification (ITU-T Rec. H.264; ISO/IEC; 14496-10 AVC)"; Document: JVT-G050; 7th Meeting: Pattaya, Thailand, 7-14 March 2003 | |
| | AJ | "Video Codec For Audiovisual Services at p•64 kbit/s"; International Telecommunication Union; H.261 (03/93) | |
| | AK | Wenger, Stephen; "H.264/AVC Over IP"; IEEE Transactions on Circuits and Systems for VideoTechnology; Vol. 13, No. 7, July 2003 | |
| | AL | Stockhammer, Thomas, et al; "H.264/AVCinWireless Environments"; IEEE Transactions on Circuits and Systems for VideoTechnology; Vol. 13, No. 7, July 2003 | |
| | AM | Wedi, Thomas and Hans Georg Musmann; "Motion-and Aliasing-Compensated Prediction for Hybrid Video Coding"; IEEE Transactions on Circuits and Systems for VideoTechnology; Vol. 13, No. 7, July 2003 | |
| | AN | Wiegand, Thomas, et al; "Long Term Memory Motion-Compensated Prediction"; IEEE Transactions on Circuits and Systems for VideoTechnology; Vol. 9, No. 1, Feb. 1999 | |

| Examiner Signature | | Date Considered | |
|---|---|---|---|

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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

*(Use as many sheets as necessary)*

Sheet 5 of 6

| *Complete if Known* | |
|---|---|
| **Application Number** | 10/677,886 |
| **Filing Date** | 10/2/2003 |
| **First Named Inventor** | Marpe, et al. |
| Art Unit | Unknown |
| Examiner Name | Unknown |
| Attorney Docket Number | SCHO0154 |

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|---|---|---|---|
| | AO | Flierl, Markus, et al; "A locally design algorithm block-based multi-hypothesis motion-compensated prediction"; Proceedings of the IEEE DCC, pp. 239-248, Snowbird, Utah; March 1988 | |
| | AP | Flierl, Markus and Bernd Girod; "Generalized B Pictures and the Draft H.264/AVC Codec"; IEEE Transactions on Circuits and Systems for VideoTechnology; Vol. 13, No. 7, July 2003 | |
| | AQ | Wiegand, Thomas, et al; "Rate-Constrained Coder Control and Comparison of Video Coding Standards"; IEEE Transactions on Circuits and Systems for VideoTechnology; Vol. 13, No. 7, July 2003 | |
| | AR | Karczewicz, Marta and Ragip Kurceren; "The SP – and SI – Frames Design for H.264/AVC"; IEEE Transactions on Circuits and Systems for VideoTechnology; Vol. 13, No. 7, July 2003 | |
| | AS | Marpe, Detlev et al; "Context-Based Adaptive Binary Arithmetic Coding in the H.264/AVC Video Compression Standard"; IEEE Transactions on Circuits and Systems for VideoTechnology; Vol. 13, No. 7, July 2003 | |
| | AT | Malvar, Henrique S. et al; "Low-complexity Transformed Quantization in H.264/AVC"; IEEE Transactions on Circuits and Systems for VideoTechnology; Vol. 13, No. 7, July 2003 | |
| | AU | List, Peter, et al; "Adaptive Deblocking Filter"; IEEE Transactions on Circuits and Systems for VideoTechnology; Vol. 13, No. 7, July 2003 | |
| | AV | Ribas-Cobera, Jordi et al; "A Generalized Hypothetical Reference Decoder for H.264/AVC"; IEEE Transactions on Circuits and Systems for VideoTechnology; Vol. 13, No. 7, July 2003 | |
| | AW | Marpe, Detlev et al; "Proposed Editorial Changes and Cleanup of CABAC"; Joint Video Team of ISO/IEC MPEG & ITU-T VCEG; Document JVT-D019; 4th Meeting: Klagenfurt, Austria, 22-26 July 2002 | |
| | AX | Wiegand, Thomas: "Study of Final Committee Draft of Joint Video Specification (ITU-T Rec. H.264, ISO/IEC 14496-10 AVC0)"; Joint Video Team of ISO/IEC MPEG & ITU-T VCEG; Document JVT-F100d2; 6th Meeting: Awaji, Island, JP, 5-13 December 2002 | |

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*(Use as many sheets as necessary)*

Sheet 6 of 6

| *Complete if Known* | |
|---|---|
| **Application Number** | 10/677,886 |
| **Filing Date** | 10/2/2003 |
| **First Named Inventor** | Marpe, et al. |
| Art Unit | Unknown |
| Examiner Name | Unknown |
| Attorney Docket Number | SCHO0154 |

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|---|---|---|---|
| | AY | Wiegand, Thomas: "Study of Final Committee Draft of Joint Video Specification (ITU-T Rec. H.264, ISO/IEC 14496-10 AVC0)"; Joint Video Team of ISO/IEC MPEG & ITU-T VCEG; Document JVT-F100; 6th Meeting: Awaji, Island, JP, 5-13 December 2002 | |
| | AZ | The Concept of a Random Variable, pages 82-84. | |
| | BA | Marpe, Detlev, et al; "Improved CABAC"; ITU - Telecommunications Standardization Sector; VCEG-018r1; 15th Meeting: Pattaya, Thailand, 4-6 Dec. 2001 | |
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| Examiner Signature | | Date Considered | |
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